
1. CERTIFICATE OF CONFORMITY

2. Nemko Certificate reference: **Nemko Nr. Ex 01E385**
3. This Certificate is issued for the following electrical equipment, intended for use in potentially explosive atmospheres:
- Apparatus or system: **Valve Positioner**
- Certified type: **D3E**
4. Manufactured by: **Palmstierna Instrument AB
Korta gatan 9
S-17154 Solna
Sweden**
- Applicant, on behalf of the manufacturer: **The Manufacturer**

5. This electrical apparatus or system and any acceptable variations thereto are specified in the Annex and possible Supplement(s) to this Certificate and in the descriptive documents therein referred to.

6. Nemko, being an Approved Certification Body in accordance with Article 14 of the Council Directive of the European Communities of 18. December 1975(76/117/EEC), confirms that the apparatus has been found to comply with the following harmonized European Standards:
CENELEC EN 50014: 1997 +A1, A2: 1999
CENELEC EN 50018: 2000

and has successfully met the type verification and test requirements of these standards.

A confidential test report has been completed on these verifications and tests.

Test Report: **200039119**

7. The code for the electrical apparatus is: **EEx d IIB + H₂ T6/T5 Ta: 65°C/80°C**

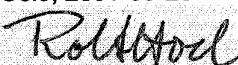
8. By marking the supplied electrical apparatus, the manufacturer attests on his own responsibility that this electrical apparatus complies with the descriptive documents referred to in the Annex to this Certificate and has satisfied routine verifications and tests required in the harmonized European Standards referred to in point 6 above.

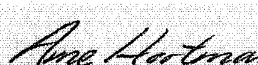
9. This electrical apparatus may be marked with the distinctive community mark as printed on this certificate, and specified in Annex II of the Council's Directive of 16. January 1984 (84/47/EEC).

Total number of pages in the Annex to this Certificate: **2**

This Certificate may only be reproduced in its entirety and without change.

Oslo, 2001-09-26


Rolf Hoel
Head of Section for Ex-equipment


Arne Hortman
Certification Engineer

ANNEX TO CERTIFICATE OF CONFORMITY

Description of the Equipment

The PMV D3E is digital positioner designed primarily to control modulating valves. The positioner can be used with single or double action actuators with either rotary or linear movement. The D3E positioner comprises an electronic board with microprocessor, hart modem, display etc, a valve block, a positional feedback with potentiometer and a compartment for electrical connections.

The pushbuttons and display are accessible from underneath the threaded lid cover.

The whole assembly is contained in a flameproof aluminium enclosure with two threaded lids and two threaded openings for cable glands/conduits. Flame arresters are integrated in the enclosure in each air inlet and outlet.

Type Designation

D3E abcdefghijkl

The additional letters and digits in the type reference concern different accessories and functions of the instrument.
a: Air pipe connection thread type, b: Surface treatment, c: Function, de: Spindle, fgh: Cover and indicator, i: Temperature/Seals, j: Input signal/protocol, k: Feedback option, l: Accessories

Data:

28V DC, 24mA

Degree of protection against ingress of dust and water according to EN 60529: IP 66

Range of Ambient Temperature

Temperature class T6: Ta. -20°C to 65°C, T5: Ta. -20°C to 80°C

Descriptive Documents

Title/description	Number	Issue	Date
Schematics, main board	D3-36	R1	2001-09-19
Hus	D3E-1(kg)	-	2001-09-14
Housing	D3E-1(N/G)	-	2001-09-14
Cover ø120	D3E-2	-	2001-09-14
Lock 120 Kokillgjutn	D3E-2(KG)	-	2001-09-14
Cover ø90	D3E-3	-	2001-09-14
Lock 90	D3E-3(KG)	-	2001-09-14
Display Cover	D3E-4	-	2001-09-14
Lackritning	D3E-5	-	2001-09-14
Marking plate	D3E-6	-	2001-09-14
Kopplingskort	D3E-7	-	2001-09-14
Plintkort	D3E-8	-	2001-09-14
Glas	D3E-9	-	2001-09-14
Flame Arrester	D3E-10	-	2001-09-14
Dekal jängor	D3E-12(N/G)	-	2001-09-14
Piezokablage	D3E-13	-	2001-09-14
Potentiometerkablage	D3E-14	-	2001-09-14
MCS 3x8 fångad	D3E-15	-	2001-09-14
Tolerances	D3E-App1	-	2001-09-14
Material Spec.	D3E-App2	-	2001-09-14
Assembly	D3E-As1	-	2001-09-14

Nemko AS
P.O. Box 73, Blindern
N-0314 Oslo, Norway

Office address
Gaustadalléen 30
Oslo

Telephone
+47 22 96 03 30
Enterprise number:

Fax
+47 22 96 05 50
NO 9443522430

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Date: 2001-09-26

Cover ø120 (assembly)	D3E-As2	-	2001-09-14
Cover ø90 (assembly)	D3E-As3	-	2001-09-14
Fäste Pot. smst.	D3E-As4	-	2001-09-14
Schematics	D3E-07	-	2001-09-13
Machining dwg.	D3E-1(N/G)	-	2001-09-05
Circuit diagram PCB Description 2 sheets	PCB-Svenm1002	1	1999-12-13
Ordercode	-	1	2001-09-13